

# SAFETY DATA SHEET

Creation Date 24-Nov-2010 Revision Date 25-May-2017 Revision Number 4

1. Identification

Product Name Drierite®, with indicator

Cat No.: AC219090000; AC219090020; AC219090050; AC219095000

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Respiratory Sensitization

Skin Sensitization

Category 1

Skin Sensitization

Category 1

Germ Cell Mutagenicity

Carcinogenicity

Category 2

Carcinogenicity

Category 1B

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

Label Elements

## Signal Word

Danger

## **Hazard Statements**

May cause an allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation
Suspected of causing genetic defects
May cause cancer by inhalation
May damage fertility



## **Precautionary Statements**

### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

### Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

### **Eves**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## **Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Calcium sulfate	7778-18-9	> 95
Cobalt(II) chloride	7646-79-9	< 2

## 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Obtain medical attention.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain,

muscle pain or flushing
Treat symptomatically

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Do not allow run-off from fire fighting to enter drains or water courses.

## **Hazardous Combustion Products**

Calcium oxides Sulfur oxides

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	0	1	N/A

## Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

**Up** formation.

	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash hands before breaks and immediately after handling the product.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

#### 1 3

# Exposure Guidelines

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Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Calcium sulfate	TWA: 10 mg/m³	(Vacated) TWA: 15 mg/m³ (Vacated) TWA: 5 mg/m³ TWA: 15 mg/m³ TWA: 5 mg/m³	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 10 mg/m³
Cobalt(II) chloride	TWA: 0.02 mg/m <sup>3</sup>	Ğ		

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined

areas. Ensure that eyewash stations and safety showers are close to the workstation

location.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin and body protection

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

> > No information available

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

Solid **Physical State Appearance** Blue

Odor No information available **Odor Threshold** No information available pН No information available Melting Point/Range 1450 °C / 2642 °F **Boiling Point/Range** No information available

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Flash Point

Upper No data available No data available Lower **Vapor Pressure** No information available

**Vapor Density** Not applicable

No information available **Specific Gravity** Slightly soluble in water Solubility No data available

Partition coefficient; n-octanol/water

**Autoignition Temperature** 

No information available **Decomposition Temperature** 

Not applicable **Viscosity** Molecular Formula Ca O4 S **Molecular Weight** 136.13

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Hygroscopic.

Incompatible products. Exposure to moist air or water. Avoid dust formation. **Conditions to Avoid** 

**Incompatible Materials** Strong oxidizing agents, Metals

Hazardous Decomposition Products Calcium oxides, Sulfur oxides

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. **Dermal LD50** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Mist LC50 Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

**Component Information** 

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
	Calcium sulfate	Calcium sulfate > 3000 mg/kg ( Rat )		Not listed	
Г	Cobalt(II) chloride	586 mg/kg ( Rat )	Not listed	Not listed	

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

May cause eye, skin, and respiratory tract irritation Irritation

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Calcium sulfate	7778-18-9	Not listed				
Cobalt(II) chloride	7646-79-9	Group 2B	Not listed	A3	X	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

ACGIH: (American Conference of Governmental Industrial A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

**Mutagenic Effects** Contains a known or suspected mutagen

Product is or contains a chemical which is a known or suspected reproductive hazard. **Reproductive Effects** 

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure Respiratory system None known STOT - repeated exposure

**Aspiration hazard** No information available

delayed

Hygienists)

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

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**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

1	Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
	Calcium sulfate Not listed		Lepomis macrochirus: LC50:	Not listed	EC50: 3200 mg/L/120H
			2.98 mg/L/96H		
	Cobalt(II) chloride Not listed		Cyprinus carpio: LC50=0.33	Not listed	1.1-1.6 mg/L 48h
			ma/L 96h		

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available.

**Mobility** Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Calcium sulfate	-0.2
Cobalt(II) chloride	0.85

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

Proper technical name (COBALT CHLORIDE)

Hazard Class 9
Packing Group III

<u>TDG</u>

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

Hazard Class 9
Packing Group III

**IATA** 

**UN-No** UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

Hazard Class 9
Packing Group III

## 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

## **International Inventories**

	Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	IECSC	KECL
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## Drierite®, with indicator

Calcium sulfate	Х	Х	-	231-900-3	-	Х	Х	Χ	Х	Х
Cobalt(II) chloride	Χ	Х	-	231-589-4	-	Χ	Х	Χ	Χ	Х

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

**TSCA 12(b)** 

Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Cobalt(II) chloride	7646-79-9	< 2	0.1

## SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

CWA (Clean Water Act) Not applicable

## Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Cobalt(II) chloride	X		-

## **OSHA** Occupational Safety and Health Administration

Not applicable

## **CERCLA**

Not applicable

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium sulfate	X	X	X	-	-
Cobalt(II) chloride	-	Х	X	X	-

### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

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### Other International Regulations

Mexico - Grade No information available

16. Other information	
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Prepared By Regulatory Affairs

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**